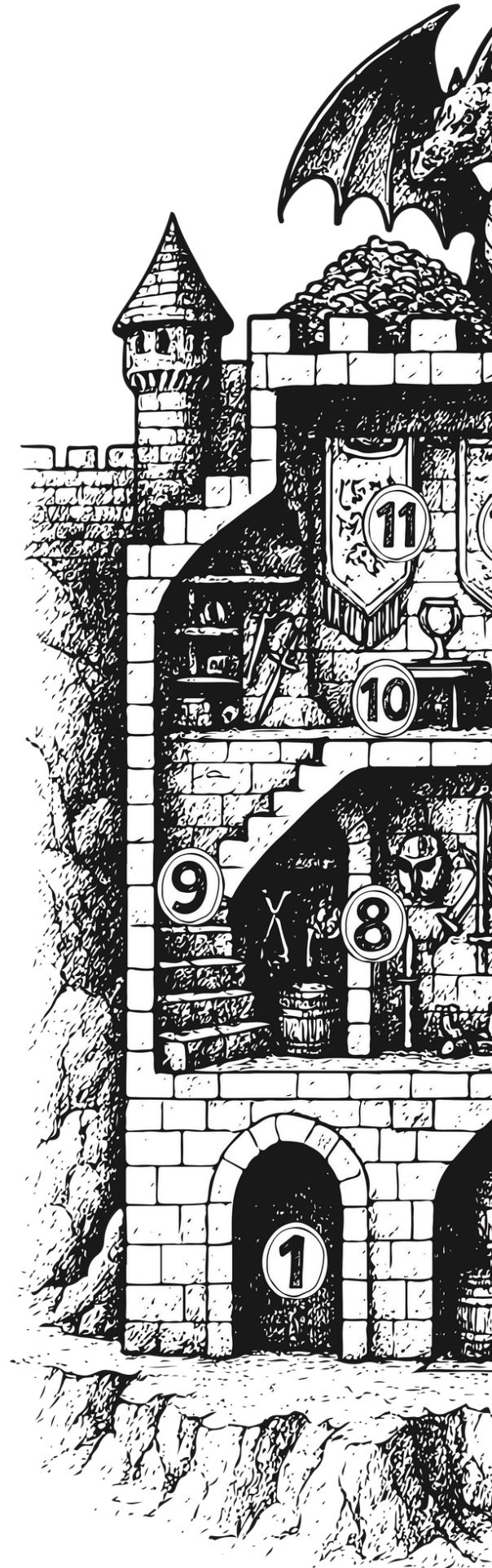


Dr. Robin Dickinson

Level 3 | Guidebook

MedPath
**COMPREHENSIVE
MEDICAL BIOLOGY**





docrobinschool.com

720-257-9030

hello@docrobinschool.com

This Guidebook Belongs to:

(Student Name)

My Guide is:

(Adult Helping Me)

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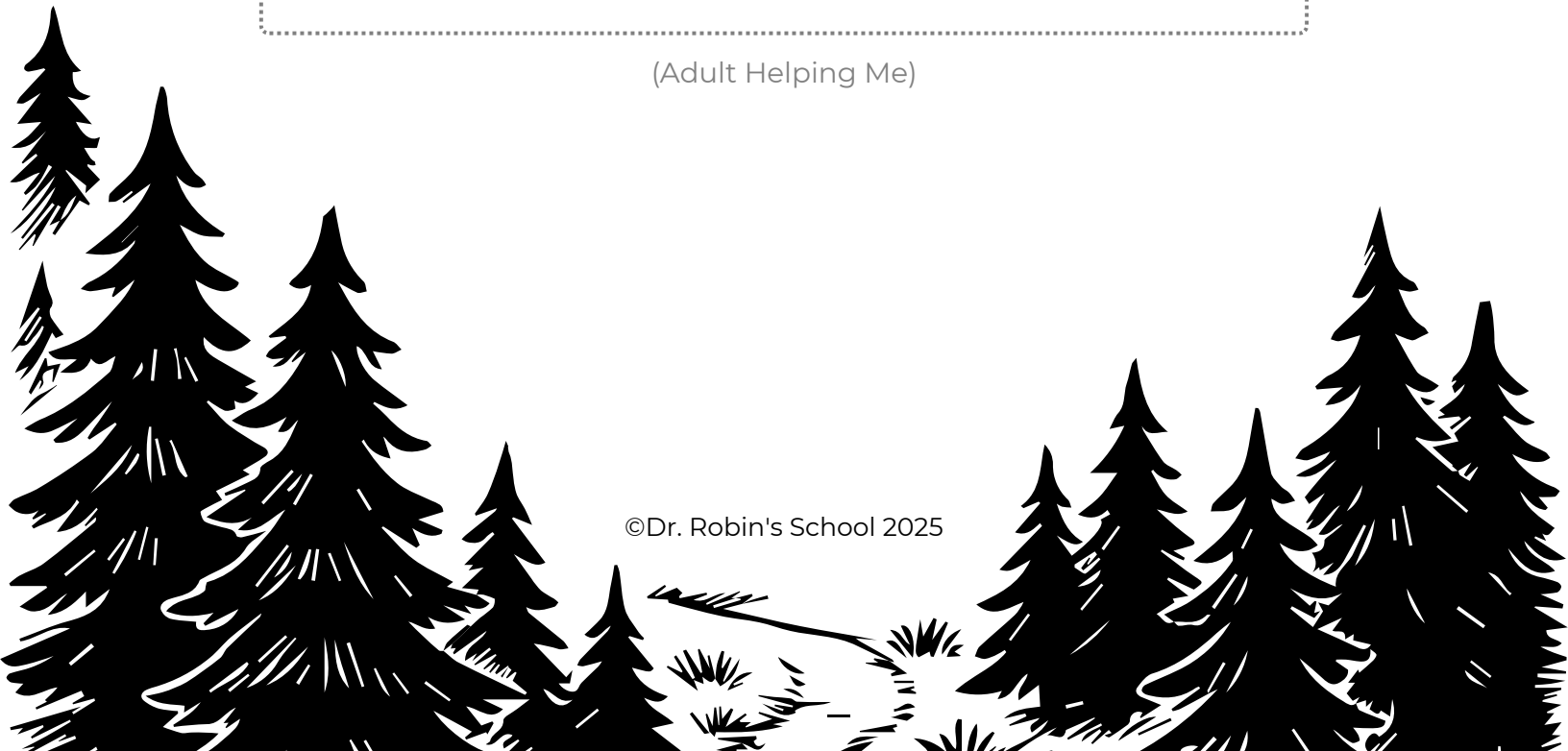


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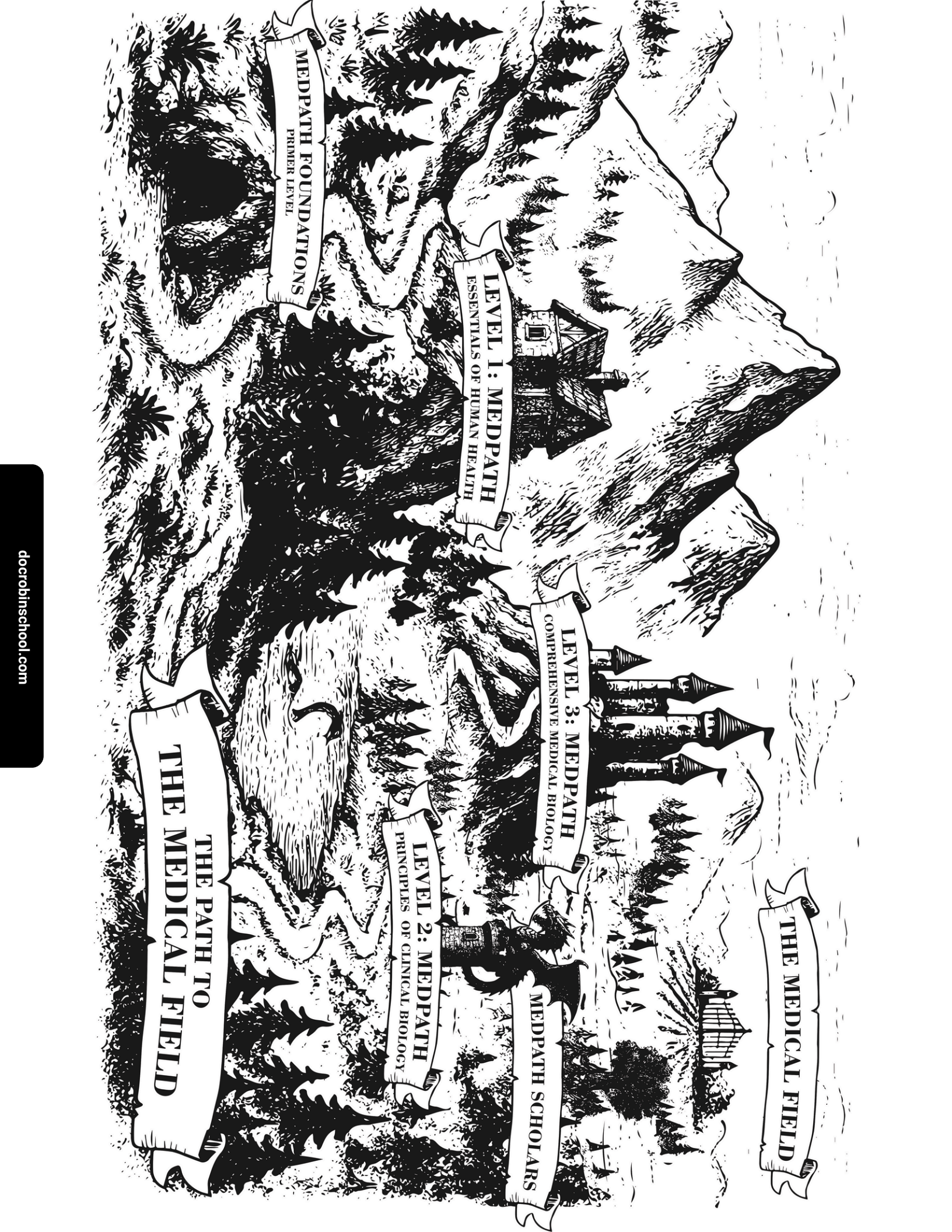
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THE MEDICAL FIELD

MEDPATH SCHOLARS

LEVEL 3: MEDPATH
COMPREHENSIVE MEDICAL BIOLOGY

LEVEL 1: MEDPATH
ESSENTIALS OF HUMAN HEALTH

MEDPATH FOUNDATIONS
PRIMER LEVEL

LEVEL 2: MEDPATH
PRINCIPLES OF CLINICAL BIOLOGY

THE PATH TO
THE MEDICAL FIELD

The Map of MedPath

From Foundations through Level 3

LEVEL 3: MEDPATH COMPREHENSIVE MEDICAL BIOLOGY

Real-world clinical reasoning, medical relevance, and one-on-one feedback to support deeper exploration.

LEVEL 2: MEDPATH PRINCIPLES OF CLINICAL BIOLOGY

A bridge between learning facts and *thinking clinically*, this level introduces case-based learning and builds systems thinking.

LEVEL 1: MEDPATH ESSENTIALS OF HUMAN HEALTH

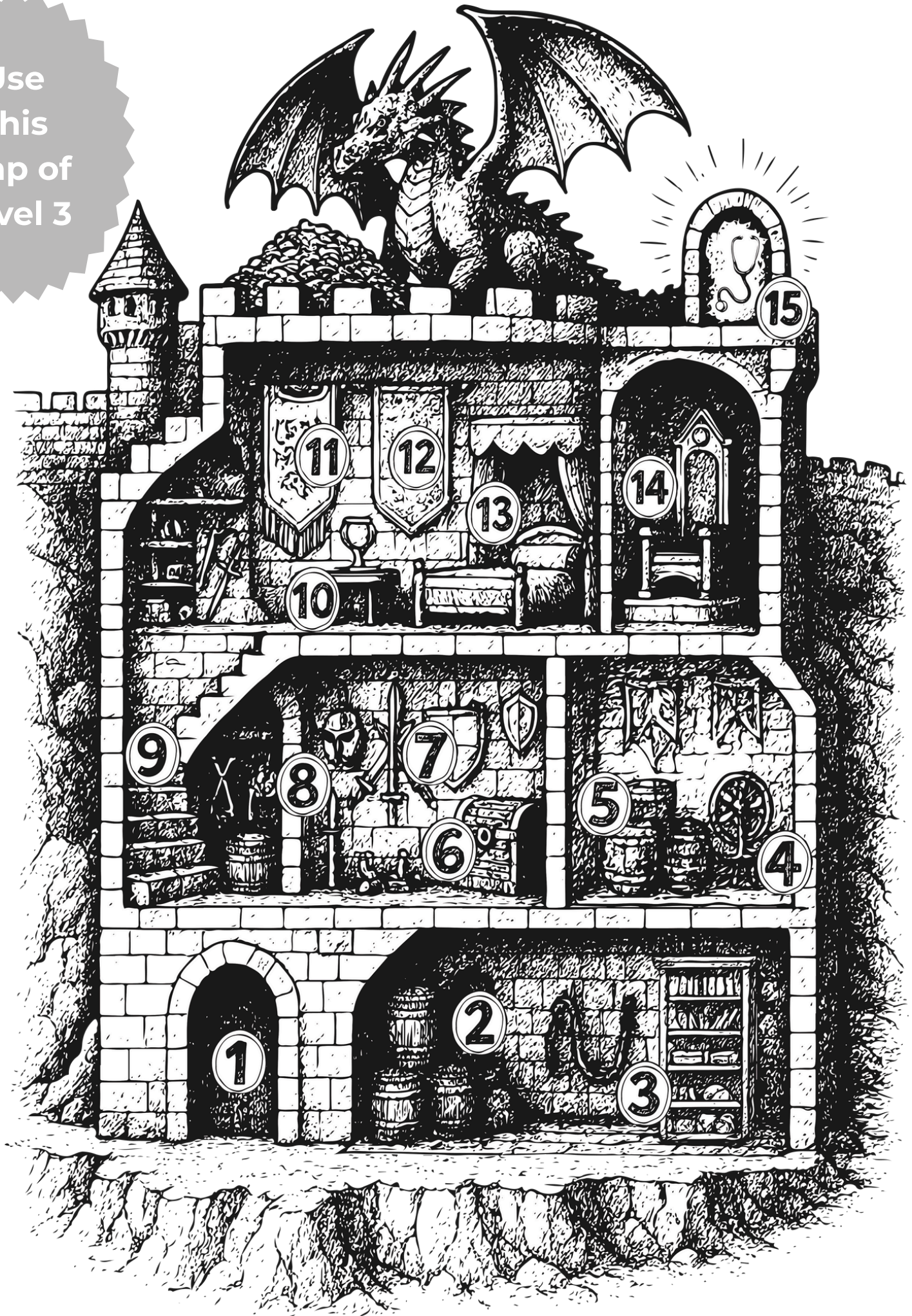
A guided tour through the body's systems, with an emphasis on vocabulary, visuals, and making sense of how it all works.

MEDPATH FOUNDATIONS PRIMER LEVEL

Short, hands-on lessons using the Anatomy Coloring Book—perfect for new or younger learners.



Use
This
Map of
Level 3



When you pass your Level 3 Final Evaluation, you will receive your very own MedPath Stethoscope.





Welcome!

Dear Young Healer,

Welcome to Level 3, Principles of Clinical Biology!

This level brings you closer than ever to thinking and learning like a medical professional. You've built a strong foundation—and now it's time to apply it, question it, and stretch your understanding even further. Here's how MedPath works: your **map** shows the journey ahead, and this guidebook helps you stay organized. When you complete a lesson, mark it off in your **guidebook**, so that you know where you are, and where you are going.

At the end of this level, you'll take either the Level 3 Exam or The Level 3 Final Evaluation. When you pass The Level 3 Final Evaluation, you'll earn your Level 3 token—and your own **stethoscope**. You will have earned the title of **MedPath Scholar** and be prepared to advance into our **MedPath Scholars Program**.

Most students work through each level more than once before they're ready to move on. That's especially true for level 3. It's not a setback—it's part of how deep learning works. If you want to move ahead after one round, you'll need to do more than just watch the lessons. Review carefully. Do every challenge question. Ask questions when something doesn't make sense.

You're capable of extraordinary things. What you're learning here could change lives—including your own.

Let's begin,

Dr. Robert

What is your goal?

What are your goals? Are you here because you are wonderfully curious about how the body works? Do you have questions about disease and cures? Do you want to learn how to help people in need? Do you have specific career goals? What are your goals? Write them down.

What do you want to gain from this journey through this level of MedPath? Write your thoughts and questions down.



Remember to mark off each lesson as you complete it!

1. Welcome

Welcome to Dr. Robin's School

- Welcome from Dr. Robin
- MedPath Anatomy and Physiology
- MedPath Lab: The Human Body in Action
- MedPath Insights: Dr. Robin's Commentary
- MedPath Careers: Different Degree Paths
- MedPath Cases
- MedPath Video Library
- Book Clubs
- Begin Your Journey

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2. Respiratory System

Anatomy: Respiratory System

- Lungs in Situ
- Bronchi and Alveoli
- How We Make Speech

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Physiology: Respiratory System

- Lesson: Fundamentals of the Lungs
- Lesson: DIY Lungs Model
- Lesson: Asthma
- Lesson: COPD
- Lesson: Pneumonia

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Lab: Respiratory System

- Breathing with Lung Disease Simulation
- Measuring Lung Capacity
- Lungs/Pluck Dissection

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Clinical Application: Respiratory System

- Problem-Based Clinical Learning Cases
- MedPath Insights: Saving Lives with ECMO:
The Lung Rescue Program at Penn Medicine
- MedPath Careers: Pulmonology

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3. Cardiovascular System

Anatomy: Cardiovascular System

- Heart Exterior
- Cardiac Cycle
- Heart Interior
- Circulatory System

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Physiology: Cardiovascular System

- Lesson: DIY Heart Pump Modeling
- Lesson: Fundamentals of the Heart
- Lesson: Blood and Blood Components
- Lesson: Heart in Situ Modeling
- Lesson: Fundamentals of Blood Pressure
- Lesson: Heart Attacks, Heart Murmurs, &
Heart Failure

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- Lesson: Taking Good Care of Your Heart
- Lesson: Stethoscopes
- Lesson: EKGs

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Lab: Cardiovascular System

- Demonstration of Cardiac Output
- Heart Rate and Oxygen Monitoring
- Blood Pressure and Orthostatic Response
- Extra Help: Fundamentals of Blood Pressure
- Heart Dissection

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Clinical Application: Cardiovascular System

- Problem-Based Clinical Learning Cases
- MedPath Insights: Day in the Life of a Cardiologist
- MedPath Careers: Cardiology
- MedPath Careers: Cardiovascular Surgeon

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4. Urinary System

Anatomy: Urinary System

- Kidneys and Bladder
- Kidney and Nephron

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Lab: Urinary System:

- Osmosis and a Semi-Permeable Membrane

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Clinical Application: Urinary System

- Problem-Based Clinical Learning Cases
- MedPath Insights: Dialysis is a Lifesaver
- MedPath Careers: Nephrology
- MedPath Careers: Urology

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5. Gastrointestinal System

Anatomy: Gastrointestinal System

- Inside the Mouth
- Digestive System
- Small Intestine
- Biliary Tree

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Physiology: Gastrointestinal System

- Lesson: Fundamentals of the Gastrointestinal System
- Lesson: Inside the Mouth
- Lesson: Teeth
- Lesson: Dental Chart Mini Activity
- Lesson: Dental Care
- Lesson: The Stomach and What Goes Wrong
- Lesson: The Small Intestine
- Lesson: The Liver and Hepatitis
- Lesson: The Pancreas
- Lesson: The Large Intestine
- Lesson: Modeling the GI System

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Lab: Gastrointestinal System

- Dental Care and Enamel Protection
- Salivary Amylase and Carbohydrate Digestion
- Stomach Acid and Denaturing Proteins
- Stomach Acid and Mineral Absorption
- Bile and Emulsifiers
- Liver Dissection
- Detoxifying with Enzymes in the Liver

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Clinical Application: Gastrointestinal System

- Problem-Based Clinical Learning Cases
- MedPath Insights: Endoscopy
- MedPath Careers: Gastroenterology
- MedPath Careers: General Surgery
- MedPath Careers: Surgical Assistant
- MedPath Careers: Dentist

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6. Immune System

Anatomy: Lymphatic

- Lymphatic System

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Physiology: Immune System

- Lesson: Bugs and Drugs
- Lesson: Fundamentals of the Immune System
- Lesson: Meet the White Blood Cells
- Lesson: Ear Infections
- Lesson: Vaccines
- Lesson: Scarlet Fever and Strep Throat
- Lesson: Allergies and Anaphylaxis
- Lesson: Autoimmune Diseases

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Lab: Immune System

- Glo Germ Simulation
- Handwashing and Microbial Growth

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Clinical Application: Lymphatic/Immune

- Problem-Based Clinical Learning Cases
- MedPath Insights: Meet an Immunologist
- MedPath Careers: Immunology
- MedPath Careers: Infectious Disease
- MedPath Careers: Rheumatology

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7. Endocrine System

Physiology: Endocrine System

- Lesson: Fundamentals of Hormones
- Lesson: Candy and Blood Sugar
- Lesson: Fundamentals of Diabetes
- Lesson: How We Grow
- Lesson: Fundamentals of the Thyroid
- Lesson: The Hypothalamic-Pituitary-Adrenal Axis

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Lab: Endocrine System

- Adrenaline and the Endocrine Response

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Clinical Application: Endocrine System

- Problem-Based Clinical Learning Cases
- MedPath Insights: Growth Hormone Deficiency
- MedPath Careers: Endocrinology

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8. Integumentary

Anatomy: Integumentary

- Skin

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Physiology: Integumentary System

- Lesson: Fundamentals of the Skin, Hair, and Nails
- Lesson: Cuts and Bruises
- Lesson: UV Damage

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Lab: Integumentary System

- UV Light and Skin Protection

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Clinical Application: Integumentary System

- Problem-Based Clinical Learning Cases
- MedPath Insights: Full Body Skin Exam
- MedPath Careers: Pathology
- MedPath Careers: Dermatology

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9. Musculoskeletal System

Anatomy: Musculoskeletal System

- Bones and Joints
- Comparative Anatomy of the Limbs: Bones
- Comparative Anatomy of the Limbs: Muscles
- Axial Skeleton

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Physiology: Musculoskeletal System

- Lesson: Fundamentals of Bones
- Lesson: Fundamentals of Joints
- Lesson: Fundamentals of Muscles
- Lesson: Feet
- Lesson: The Skull
- Lesson: Muscles of Facial Expression
- Lesson: Cleft Lip and Limb Differences

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Lab: Musculoskeletal System

- Bone Strength and Composition
- Muscle Fatigue Challenge
- Chicken Dissection

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Clinical Correlation: Musculoskeletal System

- Problem-Based Clinical Learning Cases
- MedPath Insights: Getting a Cast
- MedPath Insights: Having Your Cast Removed

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- MedPath Careers: Physical Therapy
- MedPath Careers: Physiatry
- MedPath Careers: Orthopedic Surgery

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10. Nervous System

Anatomy: Nervous System

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- Autonomic Nervous System
- Spine and Spinal Cord
- Dermatomes
- Nerve Cells
- Brain
- Homunculus
- Eye
- Ear
- Where Senses Go in the Brain

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Physiology: Nervous System

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- Lesson: The Brain
- Lesson: The Spine and Spinal Cord
- Lesson: Grey and White Matter
- Lesson: Sleep
- Lesson: Inner Brain Health
- Lesson: Using the Frontal Lobe
- Lesson: Amygdala
- Lesson: Epilepsy

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Physiology: Neurology of the Eight Senses

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- Lesson: Fundamentals of the 8 Senses
- Lesson: Touch
- Lesson: Proprioception
- Lesson: The Tongue and Nose
- Lesson: Interoception
- Lesson: The Ear and Hearing

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- Lesson: Hearing and Vibrations
- Lesson: Vestibular System
- Lesson: Tuning Fork

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Lab: Nervous System

- Sleep
- Two-Point Discrimination
- Blind Spot Demonstration
- Color Afterimages
- Proprioception Demonstration
- Pupillary Reflexes (Autonomic)

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Clinical Application: Nervous System

- Problem-Based Clinical Learning Cases
- MedPath Insights: A Stroke Patient Journey
- MedPath Careers: Neurology
- MedPath Careers: Anesthesiology
- MedPath Careers: Ophthalmology

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11. Nutrition

Nutrition

- Lesson: Water
- Lesson: Fiber
- Lesson: Protein
- Lesson: Carbohydrates
- Lesson: Fat
- Lesson: Vitamins
- Lesson: Fat vs Water Soluble Vitamins
- Lesson: Minerals
- Lesson: How to Read Food Labels

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Lab: Nutrition

- Meal Planning

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Clinical Application: Nutrition

- Problem-Based Clinical Learning Cases
- MedPath Insights: A Day in the Life of a Clinical Dietician
- MedPath Careers: Registered Dietician

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12. Healthy Choices

Healthy Choices

- Lesson: Safety
- Lesson: Habits
- Lesson: Thinking About the Future

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Clinical Application: Healthy Choices

- MedPath Insights: Naomi’s Story–Nurse at Level 1 Trauma Center
- MedPath Careers: Registered Nurse

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13. Genetics

Genetics

- Lesson: Fundamentals of Genetics and the Human Genome
- Lesson: Mitosis and Meiosis
- Lesson: Protein Synthesis
- Lesson: The Genetics of Earwax
- Lesson: Blood Type
- Lesson: Punnett Squares
- Lesson: Pedigrees

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Clinical Application: Genetics

- Problem-Based Clinical Learning Cases
- MedPath Insights: Day in the Life–Genetic Counseling

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- MedPath Careers: Geneticist

14. Putting It All Together

Anatomy: Putting It All Together

- Systems of the Human Body
- The Human Cell

Physiology: Putting it All Together

- Lesson: Follow a Red Blood Cell
- Lesson: Follow the Oxygen
- Lesson: Mitochondria
- Lesson: Follow the Iron
- Lesson: Hereditary Hemochromatosis

Lab: Putting it All Together

- Diffusion and Cell Size

Clinical Application: Putting it All Together

- Problem-Based Clinical Learning Case
- MedPath Insights: Lab Tour
- MedPath Careers: Otolaryngology
- MedPath Careers: Hepatology

15. Conclusion

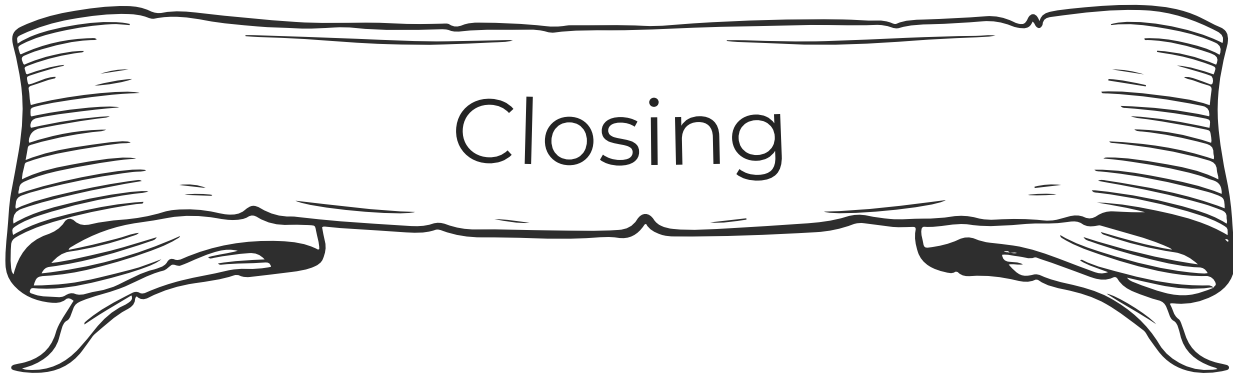
- Lesson: You Did it!

- Schedule

- If this is NOT your final time through the course, schedule your level 3 exam with the office
- If this is your final time through the course, schedule your Level 3 Final Evaluation to earn your MedPath Stethoscope

- Take your exam or your final evaluation with a medical professional from MedPath
- Determine if you should repeat this course or move on to MedPath Scholars
- Begin your next journey (either begin your next trip through this level or sign up for MedPath Scholars)
- You have now concluded this section AND this level of the journey- Mark off your Map!

-Congratulations on a job well done!-



Having completed this course, you are ready to test your knowledge and continue on your MedPath.

If this is not your final trip through this level and you have NOT completed every Challenge Question, Clinical Application (Sets A-C), and lab, then schedule your Level 3 exam. You can begin your next trip through this level and prepare for The Level 3 Final Evaluation.

If this is your final trip through this level and you have completed all the assignments, you are now ready to take **The Level 3 Evaluation**.

When you pass the final evaluation for this level, you will receive:

Your MedPath Level 3 Certificate of Completion

Your MedPath Level 3 Token

Your MedPath Stethoscope



Contact us at **hello@dicrobinschool.com** and let us know if you are ready to take the Level 3 Exam or The Level 3 Final Evaluation.



If you have tested out of this level, you are ready to move on
to MedPath Scholars!

MedPath | Scholars





MEDICAL FIELD